

Ceiling Cassette Air Conditioner SVC MANUAL(Exploded View)

MODEL: LT-H488DLE1

CAUTION

Before Servicing the unit, read the safety precautions in General SVC manual. Only for authorized service personnel.

1. Specification

Indoor

Indoor Unit Type Models Decorative Panel Model			Ceiling Cassette LTNH488DLE1	
			Power Supply	
Cooling Capacity		kW	14	
		Btu/h	47,770	
Heating Capacity		kW	15.2	
		Btu/h	51,865	
Current	Nominal Running Current A		0.4	
Fan	Motor Type		BLDC	
•	Fan Type		Turbo	
	Motor Output(W) x No. of U	nit	124*1	
	Air Flow Rate	CMM	31/29/27	
	(H / M / L)	cfm	1094/1024/953	
	External Static Pressure	mmAq	-	
	Capacitor	μF / Vac	680/400	
•	Drive		Direct	
Coil	Row x Column x FPI		2R*12C*19FPI	
Dimensions (W x H x D)	Body	mm(inch)	840*840*288(33.1*33.1*11.3)	
	Decorative Panel	mm(inch)	950*950*30(37.4*37.4*1.2)	
Net Weight	Body	kg (lbs)	31/68.3)	
	Decorative Panel	kg (lbs)	5(11)	
Air Filter			Long Life Filter	
Sound Level (H / M / L / SL)		dB(A)+3	45/44/42/41	
Piping	Liquid	mm (inch)	9.52(3/8)	
Connections	Gas	mm (inch)	19.05(3/4)	
	Drain(OD/ID)	mm	32/25	
Dehumidification Rate		l/h	2.4	
Safety Devices			Fuse, Thermal Protector	
Temperature Sensor			Thermistor	
Referigerant			R22	
Referigerant Control			Capillary Tube	
Connectable Outdoor Unit			LTUH488DLE1	
Power and Transmission Interunit Cable		No. x mm ²	5* 3.5 (5* 0.75)	

Note:

Capacities are based on the following conditions:
 Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB

- Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB

- Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB Heating:

Piping Length - Interconnecting Piping Length 7.5m

- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula	
$kW = Btu/h \times 0.0002931$	
cfm = CMM x 35.3	Ī

Outdoor

Outdoor Unit			LTUH488DLE1	
Nominal Capacity	Cooling	kW	14	
(Min~Rating~Max)		Btu/h	47,770	
,	Heating	kW	15.2	
		Btu/h	51,865	
Nominal Input	Cooling	kW	4.9	
(Min~Rating~Max)	Heating	kW	4.9	
Testing Combination			-	
Running Current(Rating)	Cooling	Α	8.5	
, ,	Heating	Α	8.7	
Starting Current	Cooling/Heating	A	-	
Power Supply		Ø / V / Hz	3/380-415/50	
Power Supply Cable(Out	door)	No. x mm ²	5*3.5(Including Earth)	
Power and Transmission	Cable	No. x mm²	5*0.75(Including Earth)	
(Outdoor to Indoor or Out	tdoor to BD)	INO. X IIIIII	, , ,	
Power and Transmission		No. x mm ²	-	
Dimensions	WxHxD	mm(inch)	1130*900*370 (44.5 *35.4*14.5)	
Net Weight		kg(lbs)	105(231)	
Max. Number of Connect	able Indoor Units	J. /	1	
Compressor (#1)	Туре		SCROLL	
. , ,	Qty x Model		1 * SB061YAA	
	Motor type		Induction	
	Oil charge volume	CC	1,650	
	Oil Type		SUNISO 4GSI	
Compressor (#2)	Туре		•	
	Qty x Model		-	
	Motor type		-	
	Oil charge volume	CC	-	
	Oil type			
Compressor (#3)	Туре		-	
Compressor (#O)	Qty x Model		•	
	Motor type			
	Oil charge volume	CC	•	
	Oil type			
Refrigerant	Cycle A Charge (at 7.5m)	g(oz)	3,700(130.5)	
Tionigorant	Cycle B Charge (at 7.5m)	g(oz)	-	
	Type		R22	
	Control		Capillary Tube	
Additional Refrigerant Ch		g/m(oz/ft)	45(0.48)	
Heat Exchanger	(Rows x Column x FPI) x No	<u>g///(02////</u>)	(2R*22C*18FPI)*2	
riout =nonungor	Defrosting Method		Reversing Cycle	
Fan	Capacitor	μF/Vac	6/370-400	
	Drive private		Direct	
	Discharge Direction(Side/Top)		Side	
	Air Flow RatexNo. of Fan	CMM(cfm)	110(3885)	
Sound Level(H/L)	Sound Pressure	dB(A)+3	59	
Piping Connections	Liquid(Cycle A)	mm(inch)	9.52(3/8)	
rg	Gas(Cycle A)	mm(inch)	19.05(3/4)	
	Liquid(Cycle B)	mm(inch)	-	
	Gas(Cycle B)	mm(inch)	-	
	High Pressure Gas	mm(inch)	-	
Max. Interunit	Total Piping m 50			
Piping Length	Main Piping	m	-	
Ia -+a	Total Branch Piping m			
	Each Branch Piping m		-	
Max. Elevation	Outdoor Unit~Indoor Unit	m	30	
Difference	Indoor Unit~Indoor Unit	m	-	
Operation Range	Cooling	°C(°F)	21~54	
(Outdoor)	Heating	°C(°F)	-7~24	
,	9	- \ ' ' /		

Note:

1. Capacities are based on the following conditions:

- Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB Cooling:

- Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB

Heating: - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB Piping Length - Interconnecting Piping Length 7.5m

- Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without notic for purpose of improvement.

Conversion Formula
$kW = Btu/h \times 0.0002931$
cfm = CMM x 35.3

2. List of Functions

Indoor

Category	Function	LTNH488DLE1
	Air Supply Outlet	4
	Airflow Direction Control (left & right)	-
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	X
Air flow	Auto Swing (up & down)	0
All llow	Airflow Steps(Fan / Cool / Heat)	4/5/4
	CHAOS Swing	X
	CHAOS Wind (Auto wind)	0
	Jet Cool (Power Wind)	0
	Swirl Wind	0
	Deodorizing Filter	X
Air Purifier	Plasma Air Purifier	OPTION
	Prefilter(Washable / Anti-Fungus)	0
	Drain Pump	0
Installation	E.S.P. Control	-
mstallation	Electric Heater(Operation)	-
	High Ceiling Operation	0
	Hot Start	0
Reliability	Self Diagnosis	0
	Soft Dry Operation	0
	Auto Changeover	0
	Auto Cleaning	X
	Auto Operation (Artificial Intelligence)	0
	Auto Restart Operation	0
	Child Lock	0
Convenience		0
	Group Control	0
	Sleep Mode	0
	Timer (On/Off)	0
	Timer (weekly)	0
	Two Thermistor Control	0
	Standard Wired Remote Controller	0
	Deluxe Wired Remote Controller	Χ
Individual	Simple Wired Remote Controller	Χ
Control	Wired Remote Controller(for hotel use)	Χ
	Wireless Remote Controller(simple)	Χ
	Wireless LCD Remote Controller	ACCESSORY(PQWRHSF0)
	General Central Controller(Non LGAP)	X
CAC	Dry Contact	OPTION
Network	Network Soluation(LGAP)	0
Function	PDI(Power Distribution Indicator)	X
	PI485	ACCESSORY(PMNFP14A0)
Special	Zone Control	X
Function	CTIE	X
Kit	Electro Thermostat	X
Others	Thermistor	-

Note:

O: Applied, X: Not applied, -: No relation

Option: Model name & price are different according to options, and assembled in factory with main unit.

Accessory: Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

Skip over evaporator sensing means that the function of knock-off to prevent freezing is skipped, when IDU start cooling mode.

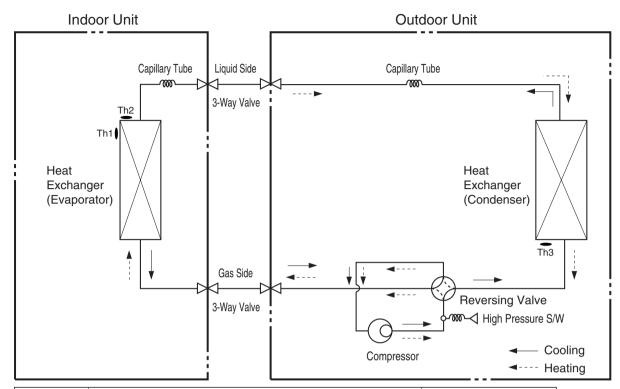
Outdoor

Category	Function	LTNH488DLE1
	Defrost / Deicing	0
	High Pressure Switch	0
	Low Pressure Switch	X
Reliability	Phase protection	0
neliability	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	X
	Test Function	0
Camuanianaa	Auto Changeover	0
Convenience	Auto Restart Operation	0
CAC Network	Central control(LGAP)	0
	PDI(Power Distribution Indicator)	X
Function	PI485	X
Special Function Kit	Low Ambient Kit	ACCESSORY
Others	Thermistor	-

Note:

O : Applied, X : Not applied, - : No relation
Option: Model name & price are different according to options, and assembled in factory with main unit.
Accessory: Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

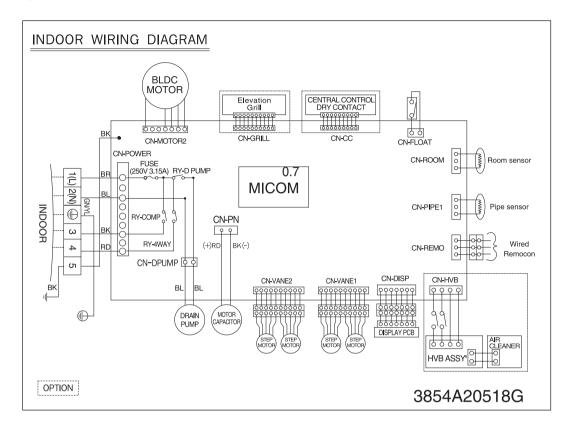
3. Piping Diagrams

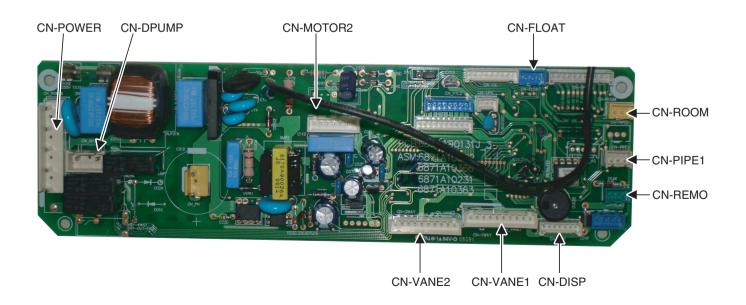


	LOC.	Description	PCB Connector
Th1 Thermistor for		Thermistor for indoor air temperature	CN_ROOM
	Th2 Thermistor for evaporating temperature		CN_PIPE1
Th3 Thermistor for condensing temperature		Thermistor for condensing temperature	Deice PCB

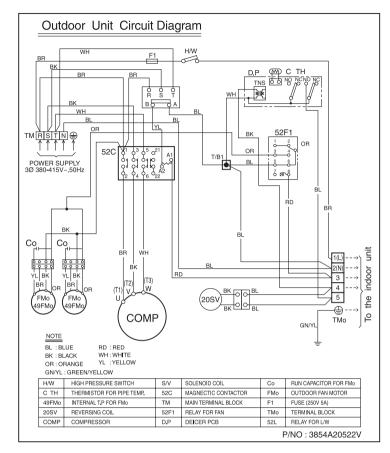
4. Wiring Diagrams

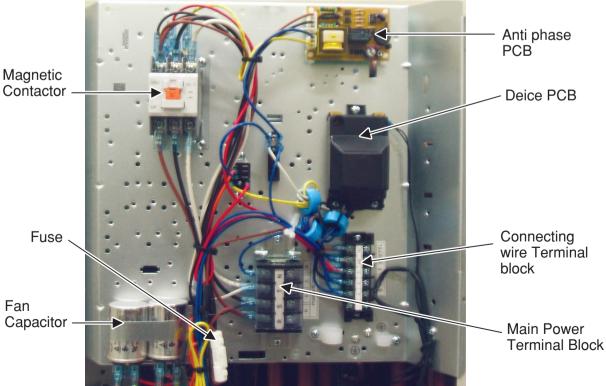
Indoor Unit





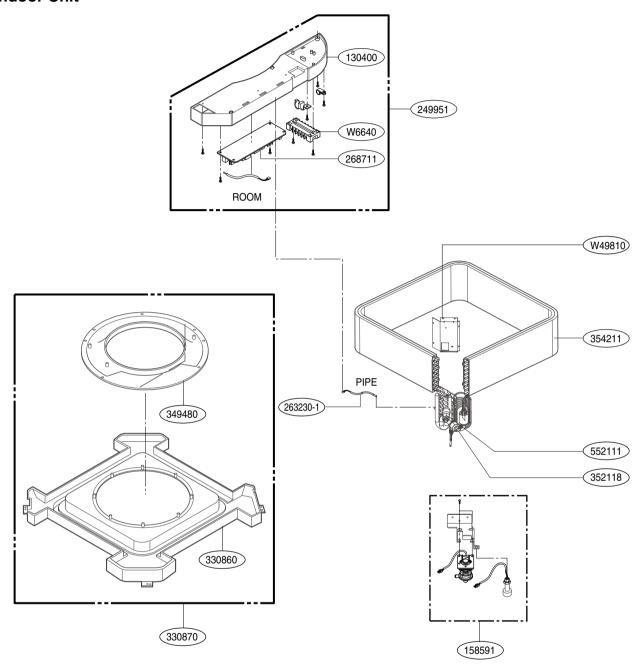
Outdoor Unit





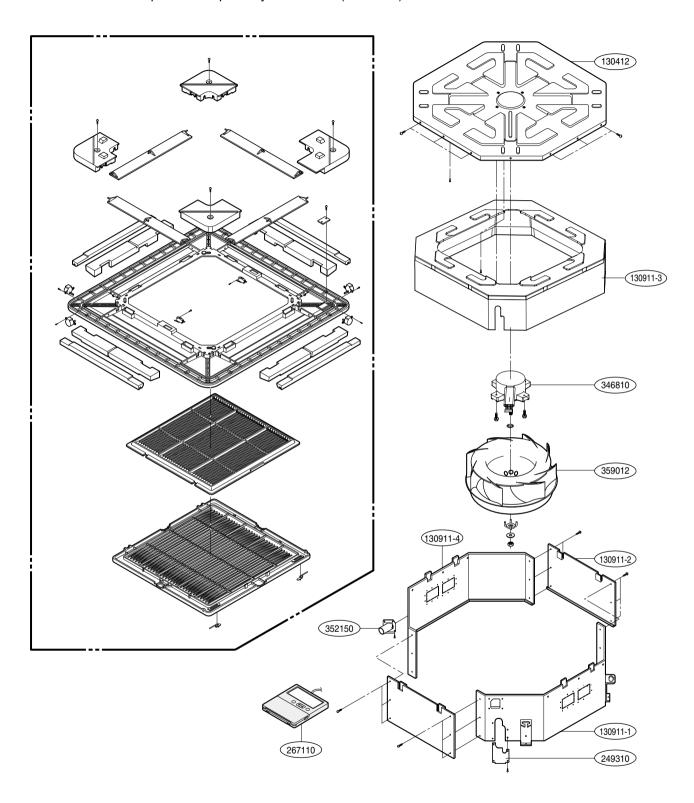
5. Exploded View

Indoor Unit



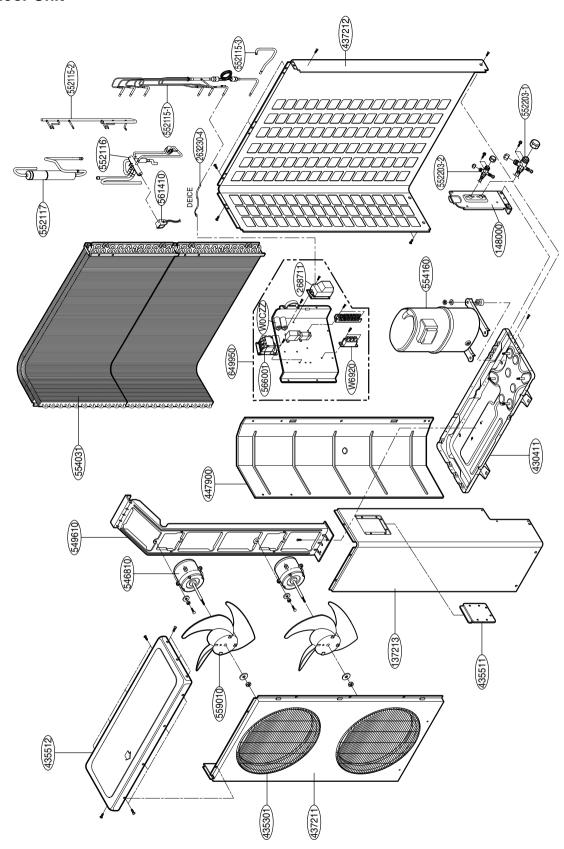
Note) * Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website http://biz.Lgservice.com,)

Please check the service part of front panel by model name(PT-HDA1)



Note) * Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website http://biz.Lgservice.com,)

Outdoor Unit



Note) * Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website http://biz.Lgservice.com,)



P/NO : MFL33061306 FEBRUARY, 2007



P/NO : MFL33061306 AUGUST, 2007